

National Transportation Safety Board Aviation Accident Final Report

Location: RAINBOW LAKE, FL Accident Number: MIA92FA051

Date & Time: 12/23/1991, 1131 EST Registration: N47506

Aircraft: PIPER PA-34-200T Aircraft Damage: Destroyed

Defining Event: Injuries: 2 Fatal

Flight Conducted Under: Part 91: General Aviation - Personal

Analysis

THE PRIVATE PILOT AND A PILOT RATED PASSENGER WERE GOING TO PRACTICE SIMULATED INSTRUMENT FLIGHT. WITNESSES OBSERVED THE AIRPLANE'S RIGHT WING FAIL IN A DIVE AND CRASH. EXAMINATION OF THE WRECKAGE AND BODIES REVEALED THAT BOTH OCCUPANTS WERE PARTIALLY CLOTHED AND THE FRONT RIGHT SEAT WAS IN THE FULL AFT RECLINING POSITION. NEITHER BODY SHOWED EVIDENCE OF SEATBELTS OR SHOULDER HARNESSES BEING WORN. EXAMINATION OF THE INDIVIDUALS' CLOTHING REVEALED NO EVIDENCE OF RIPPING OR DISTRESS TO THE ZIPPERS AND BELTS.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: THE PILOT IN COMMAND'S IMPROPER INFLIGHT DECISION TO DIVERT HER ATTENTION TO OTHER ACTIVITIES NOT RELATED TO THE CONDUCT OF THE FLIGHT. CONTRIBUTING TO THE ACCIDENT WAS THE EXCEEDING OF THE DESIGN LIMITS OF THE AIRPLANE LEADING TO A WING FAILURE.

Findings

Occurrence #1: LOSS OF CONTROL - IN FLIGHT

Phase of Operation: CRUISE

Findings

1. (C) IN-FLIGHT PLANNING/DECISION - IMPROPER - PILOT IN COMMAND

2. (C) DIVERTED ATTENTION - PILOT IN COMMAND

Occurrence #2: AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION

Phase of Operation: DESCENT - EMERGENCY

Findings

3. WING - FAILURE, TOTAL

4. (F) DESIGN STRESS LIMITS OF AIRCRAFT - EXCEEDED - PILOT IN COMMAND

Occurrence #3: IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation: DESCENT - UNCONTROLLED

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Factual Information

Pilot Information

Certificate:	Private	Age:	45, Female
Airplane Rating(s):	Multi-engine Land; Single-engine Land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	None	Second Pilot Present:	Yes
Instructor Rating(s):	None	Toxicology Performed:	Yes
Medical Certification:	Class 3 Valid Medicalw/waivers/lim.	Last FAA Medical Exam:	07/11/1990
Occupational Pilot:		Last Flight Review or Equivalent:	
Flight Time:	470 hours (Total, all aircraft), 10 ho aircraft)	urs (Last 30 days, all aircraft), 1 hours	s (Last 24 hours, all

Aircraft and Owner/Operator Information

Aircraft Make:	PIPER	Registration:	N47506
Model/Series:	PA-34-200T PA-34-200T	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	7870001
Landing Gear Type:	Retractable - Tricycle	Seats:	7
Date/Type of Last Inspection:	01/02/2000, Unknown	Certified Max Gross Wt.:	4750 lbs
Time Since Last Inspection:		Engines:	2 Reciprocating
Airframe Total Time:		Engine Manufacturer:	CONTINENTAL
ELT:	Installed, not activated	Engine Model/Series:	TSIO-360-E
Registered Owner:	TRANS AIR DIRECT INC.	Rated Power:	200 hp
Operator:	TRANS AIR DIRECT INC.	Operating Certificate(s) Held:	None

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Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	GNV, 28 ft msl	Distance from Accident Site:	41 Nautical Miles
Observation Time:	1047 EST	Direction from Accident Site:	10°
Lowest Cloud Condition:	Scattered / 25000 ft agl	Visibility	7 Miles
Lowest Ceiling:	None / 0 ft agl	Visibility (RVR):	0 ft
Wind Speed/Gusts:	10 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	200°	Turbulence Severity Forecast/Actual:	1
Altimeter Setting:	30 inches Hg	Temperature/Dew Point:	19°C / 13°C
Precipitation and Obscuration:			
Departure Point:	OCALA, FL (0CF)	Type of Flight Plan Filed:	None
Destination:	WINTERHAVEN, FL (GIF)	Type of Clearance:	None
Departure Time:	1045 EST	Type of Airspace:	Class E

Wreckage and Impact Information

Crew Injuries:	2 Fatal	Aircraft Damage:	Destroyed
Passenger Injuries:	N/A	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 Fatal	Latitude, Longitude:	

Administrative Information

Investigator In Charge (IIC):	Andrew A Alston	Report Date:	05/05/1993
Additional Participating Persons:	ERNEST WILSON; ORLANDO, FL		
Publish Date:			
Investigation Docket:	NTSB accident and incident dockets serve as permanent archival information for the NTSB's investigations. Dockets released prior to June 1, 2009 are publicly available from the NTSB's Record Management Division at publing@ntsb.gov , or at 800-877-6799. Dockets released after this date are available at http://dms.ntsb.gov/pubdms/ .		

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The National Transportation Safety Board (NTSB), established in 1967, is an independent federal agency mandated by Congress through the Independent Safety Board Act of 1974 to investigate transportation accidents, determine the probable causes of the accidents, issue safety recommendations, study transportation safety issues, and evaluate the safety effectiveness of government agencies involved in transportation. The NTSB makes public its actions and decisions through accident reports, safety studies, special investigation reports, safety recommendations, and statistical reviews.

The Independent Safety Board Act, as codified at 49 U.S.C. Section 1154(b), precludes the admission into evidence or use of any part of an NTSB report related to an incident or accident in a civil action for damages resulting from a matter mentioned in the report. A factual report that may be admissible under 49 U.S.C. § 1154(b) is available here.

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